

Title (en)  
A HIGH-DATA-RATE WIRELESS LOCAL-AREA NETWORK

Title (de)  
DRAHTLOSES LOKALES NETZWERK MIT HOHER DATENRATE

Title (fr)  
RESEAU LOCAL SANS FIL, A HAUT DEBIT

Publication  
**EP 0745290 A1 19961204 (EN)**

Application  
**EP 95908796 A 19950203**

Priority  

- US 9501421 W 19950203
- US 19813894 A 19940217
- US 36977894 A 19941230

Abstract (en)  
[origin: WO9522859A1] An apparatus and method for communicating data between at least two data devices, suitable for use as a wireless local-area network, that provides robust data communication via a radio communication channel corrupted by multipath interference, particularly at high data rates. A preferred embodiment of the invention represents data as a sequence of Walsh-function waveforms (66) encoded by pseudo-noise direct-sequence spread-spectrum modulation (70). Walsh function encoding of the data provides a long symbol duration, thereby allowing the spread spectrum modulation to provide processing gain sufficient to substantially overcome multipath interference, while providing a high data rate.

IPC 1-7  
**H04B 1/707**

IPC 8 full level  
**H03M 7/30** (2006.01); **H04B 1/707** (2006.01); **H04B 1/711** (2011.01); **H04B 14/04** (2006.01); **H04J 11/00** (2006.01); **H04J 13/00** (2011.01); **H04J 13/10** (2011.01); **H04L 1/00** (2006.01); **H04L 12/28** (2006.01); **H04L 27/18** (2006.01); **H04L 27/20** (2006.01)

CPC (source: EP US)  
**H04B 1/707** (2013.01 - EP US); **H04B 1/711** (2013.01 - EP US); **H04J 13/0048** (2013.01 - EP US); **H04J 13/102** (2013.01 - EP US); **H04B 2201/709709** (2013.01 - EP US); **H04W 84/12** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9522859 A1 19950824**; AU 1699795 A 19950904; AU 684905 B2 19980108; CA 2176401 A1 19950824; CA 2176401 C 20030708; CN 100483958 C 20090429; CN 1083648 C 20020424; CN 1141103 A 19970122; CN 1405984 A 20030326; EP 0745290 A1 19961204; EP 0745290 A4 19990714; JP 2002198860 A 20020712; JP 2003168999 A 20030613; JP 3406319 B2 20030512; JP 3532556 B2 20040531; JP H09509294 A 19970916; MX 9603336 A 19970531; SG 52170 A1 19980928; US 6075812 A 20000613; US 6473449 B1 20021029

DOCDB simple family (application)  
**US 9501421 W 19950203**; AU 1699795 A 19950203; CA 2176401 A 19950203; CN 01136147 A 19950203; CN 95191641 A 19950203; EP 95908796 A 19950203; JP 2001272736 A 20010806; JP 2002329562 A 20021113; JP 52182595 A 19950203; MX 9603336 A 19950203; SG 1995001432 A 19950203; US 4865198 A 19980326; US 48739500 A 20000118